IN THE CLAIMS

Claims 1 and 9 and 11 are concatenated to claim 1 and amended, after concatenation claim 9 and 11 are cancelled. Claim 2-8 are cancelled. Claim 10 is amended as 'according to claim 1' instead of 'according to claim 9'. Claim 15 and claim 16 are added. Claim 15 is copied from claim 12 and claim16 is copied from claim 13. Claim 12 is amended as 'according to claim 1' instead of 'according to claim 2 or claim 9'. Claim 13 is amended as 'according to claim 1' instead of 'according to claim 2 or claim 9'. Claim 15 is amended as 'according to Claim 10' instead of 'according to claim 2 or claim 9'. Claim 16 is amended as 'according to Claim 10' instead of 'according to claim 2 or claim 9'. Claim 14 is cancelled.

1. (Concatenated and amended)
A distributed database system comprising:
    plurality of administration domains,
        wherein
        each of said administration domains comprising:
            one or more database administration apparatuses,
                which administers database allocated
                    on said
                    database administration apparatuses
                    themselves or client computers
                    wherein
                        client computers are comprising:
                        at least one or more CPU,
                        and main memories,
                        and one or more
                        network Information cards;
                  on the network
                    in said administration domain;
            a topology administration server
                which administers information
                    of said database management systems
                    such as data dictionary,
                    or locking status,
                    or referential integrity status,
                    or physical location of rows divided

horizontally to the tables including sited in the databases in the other domains, or physical location of columns divided vertically to the tables including sited in the databases in the other domains, or multi transactions commit counter, or meta data of said database management systems, or meta data of file systems on which said database management systems exist;

and said client computers, which are allocated on the network beneath said database administration apparatuses administered with said topology administration server;

wherein
said topology administration servers exchange their topology information each other,
and database administration apparatuses and said computers
can be real machine or can be virtual machine also,
and said topology administration server comprises:

storage for topology information, which stores topology information, including certain information correlating a database object identifier, which is information
for identifying a database object administered by said database administration apparatus, with an identifier of a database administration apparatus for identifying a database administration apparatus administering the database object;

a receiver for a cache request, which receives a cache request including said database object identifier transmitted from said client computers for caching a database object identified

by said database object identifiers;
an acquisition unit,

for an identifier of a database administration apparatus,

which acquires a corresponding identifier

of a database administration apparatus

from said storage

for topology information

based on the database

object identifier included

in the cache request received

by said receiver

for a cache request;

a transferring unit for a cache request,

which transfers said cache request

to the database administration apparatus identified

by the identifier

of the database administration apparatus,

in which said identifier is acquired

by said acquisition unit

for an identifier

of a database administration apparatus;

a receiver for cache-completed information,

which receives cache-completed information,

which is information indicating caching

of the database object

to the computer;

a cache updating unit for topology information,

which updates the cache-completed information

of topology information stored

in the storage

for topology information

to the current status based

on the cache-completed information received

by the receiver

for cache-completed information;

an exchanging unit for topology information,

which exchanges topology information
        with the other topology administration server
        administrating the other administration
        domain communicable via network;
said computer comprises:
    a transmitter for a cache request,
        which transfers a cache request,
    a receiver for a database object,
        which receives the database object returned
            in accordance
            with the transmission
            of the cache request
            by said transmitter
            for a cache request;
    and a caching unit for a database object,
        which caches a database object received
            by the receiver
            for a database object;
and said database management system comprises:
    a receiver for a cache request,
        which receives the cache request transferred
            by the topology administration server;
    and a copy and transmission unit for a database object,
        which copies and transmits the database object
            in accordance
            with the cache request received
            by the receiver for a cache request.

10. (Currently renumbered and amended)

The distributed database system according to claim 1,

    wherein said topology information correlates

        lock information relating to a lock,

            which is operated by a database object,

                with a database object identifier;

    and said topology administration server comprises:

        a receiver for lock-operation information,

            which receives the lock information,

    a lock updating unit for topology information,

        which updates lock information

            of topology information,

        which is stored

            in the storage

            for topology information,

            to the current status based

            on the lock information received

            by the receiver

            for lock-operation information.

12. (Currently renumbered and amended)
The distributed database system according to claim 1,

    wherein said database administration apparatus comprises:

        a transmitter for an update-operation instruction,

            which transmits an update-operation instruction,

            which is an instruction

                for update-operation

                of a database object,

                to a client apparatus

                of a computer caching the database object

                upon executing the update-operation

                with respect to the database object held therein;

    and said computer comprises:

        a receiver for an update-operation instruction,

            which receives an update-operation instruction,

        and an update-operation unit for a database object,

            which updates the database object cached

                in the caching unit

                for a database object based

                on the update-operation instruction received

                by the receiver

                for an update-operation instruction.

13. (Currently renumbered and amended)

The distributed database system according to claim 1,

    wherein said database administration apparatus comprises:

        a receiver for update-operation information,

            which receives update-operation information relating

                to the update-operation

                on a database object,

        an update-operation unit,

            which executes the update-operation

                on the database object held therein

                based on the update-operation information received

                by the receiver

                for update-operation information,

        and a transmitter for an update-operation instruction,

            which transmits an update-operation instruction

                of a cached database object

                to a client apparatus

                of a computer caching the database object based

                on said update-operation information;

    and said computer comprises:

        a transmitter for update-operation information,

            which transmits update-operation information,

        a receiver for an update-operation instruction,

            which transmits an update-operation instruction,

        and an update-operation unit for a database object,

            which updates the database object cached

            by the caching unit

            for a database object

            based on the update-operation instruction received

            by the receiver

            for an update-operation instruction.

15. (Currently renumbered and amended)

The distributed database system according to claim 10,

    wherein said database administration apparatus comprises:

        a transmitter for an update-operation instruction,

            which transmits an update-operation instruction,

            which is an instruction

                for update-operation

                of a database object,

                to a client apparatus

                of a computer caching the database object

                upon executing the update-operation

                with respect to the database object held therein;

    and said computer comprises:

        a receiver for an update-operation instruction,

            which receives an update-operation instruction,

        and an update-operation unit for a database object,

            which updates the database object cached

                in the caching unit

                for a database object based

                on the update-operation instruction received

                by the receiver

                for an update-operation instruction.

16. (Currently renumbered and amended)
The distributed database system according to claim 10,
      wherein said database administration apparatus comprises:
            a receiver for update-operation information,
                  which receives update-operation information relating
                        to the update-operation
                        on a database object,
            an update-operation unit,
                  which executes the update-operation
                        on the database object held therein
                        based on the update-operation information received
                        by the receiver
                        for update-operation information,
            and a transmitter for an update-operation instruction,
                  which transmits an update-operation instruction
                        of a cached database object
                        to a client apparatus
                        of a computer caching the database object based
                        on said update-operation information;
      and said computer comprises:
            a transmitter for update-operation information,
                  which transmits update-operation information,
             a receiver for an update-operation instruction,
                  which transmits an update-operation instruction,
            and an update-operation unit for a database object,
                  which updates the database object cached
                  by the caching unit
                  for a database object
                  based on the update-operation instruction received
                  by the receiver
                  for an update-operation instruction.